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• Listening and notetaking, 3 p.m.
• Math anxiety, 1 p.m.

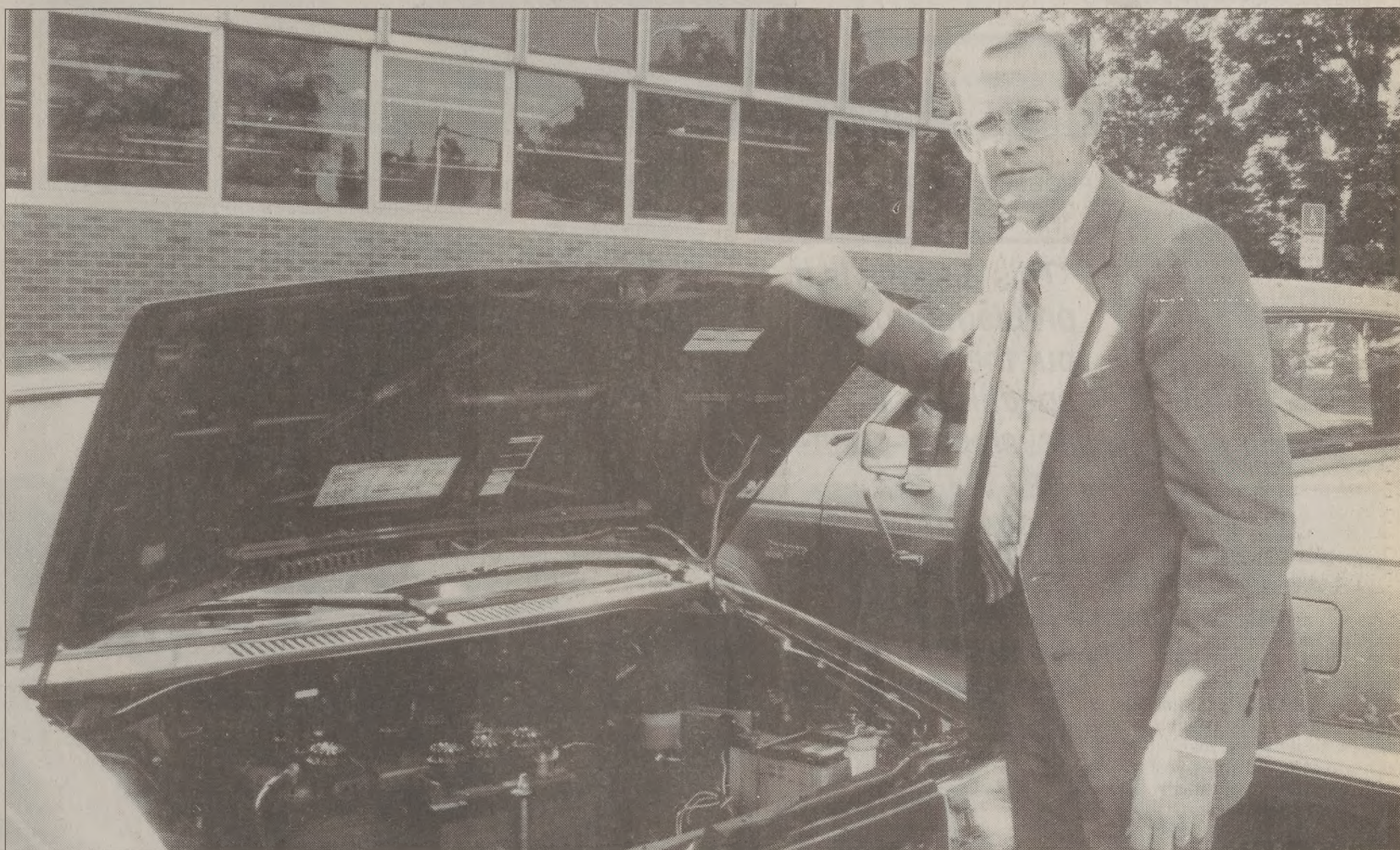
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Brigham Young University, Provo, Utah

Vol. 48 Issue 36

Research a way of life for faculty members

BYU may not be one of the major research universities in the country and most standards, but the faculty members here certainly do their share. This issue investigates the research of six faculty members in the College of Engineering and Technology and the College of Zoology and Agriculture. There is more research than just these examples. Officials in BYU's Office of Research and Creative Work, who coordinates faculty members' receiving research funds from outside sources, report research being done in every department in every college on campus.



Emily Barron/Daily Universe

IT'S RECHARGABLE: Robert Todd, an associate professor in the Department of Manufacturing Engineering and Engineering Technology, checks the generator of his

electric-powered Ford Festiva outside the Brewster Building Friday. See page 4 for more information on Todd and his work with BYU engineering students.

Preserving bear populations important pursuit for BYU zoologist

By KENDAHL JOHNSON
Universe Sports Writer

Contrary to some students' beliefs, professors don't spend all of their academic time giving lectures and grading exams.

Hal Black, a BYU professor of zoology, spends a large portion of his time 75 miles south of Roosevelt in the Book Cliffs.

His time in the cliffs is spent researching the black-bear population.

"I have always been interested in mammals," Black said, "so when the opportunity (to study bears) came, it was exciting."

During the school year and with the help of graduate students, Black travels to the wilderness for five episodes of 12 days each.

During that time the professor and students use putrefied meat to trap bears.

They then place radio-tracking devices on the females and release them.

"Through capture-and-release trapping we are able to get a good idea of the various population perimeters and characteristics of the black bear," Black said.

The research and study enables Black to discover such things as when the females reach sexual maturity, how many cubs are produced and how often and how well the cubs survive after they are weaned from the mother bear.

Black's research is funded by two governmental agencies, the Division of Wildlife Resources and the Bureau of Land Management.

Because the government issues hunting licenses to bear hunters, they are interested in the black-bear population.

Research has shown that the bear population is not in any danger due to hunters, Black said.

"There has been nothing to indicate that the bear population is anything but healthy and has survived regular huntings without detriment," Black said.

One aspect of the research that may be considered dangerous is the study of cub production.

In order to do this, research groups spend eight days during the winter venturing into the mothers' dens.

Black refutes some common conceptions about the bear population.

For example, the notion portrayed in television and movies of the aggressive bear that will enter campsites and attack campers is highly erroneous, he said.

"Most of that stuff is fairy tale," Black said.

"They might try to scare or intimidate you but would probably rather run up a tree than to attack you," he said.

In all the time that Black has been researching the black bear, no one has ever been harmed or attacked.

No one has even been in danger of being harmed, either, Black said.

Black and the students helping with the research gain an affection for the bears they work with.

The researchers even give the bears names like "Mimi" and "Yuki".

Although Black spends a lot of time in the wilderness following animals and has spent time in Africa teaching and researching bats, he does not compare

himself to Marlon Perkins of the once-popular television show Mutual of Omaha's Wild Kingdom.

"The idea of roughing it is absurd," Black said. "Sustained field work requires eating well, sleeping well and staying clean."

"Dr. Black needs his hot shower," added Janene Auger, a zoology master's candidate who has spent time in the field with Black.

Black is quick to recognize the work of graduate students who assist him in the field.

Although they receive a salary during the summer, they work much harder than what they are paid for, he said.

Anyone venturing into the office of Hal Black will know that he enjoys his work.

Among the papers and books are evidence of the outdoors, including a deer hide, a mounted boar's head and bats preserved in formaldehyde.

"There has been nothing to indicate that the bear population is anything but healthy and has survived regular huntings without detriment."

— Hal Black,
professor of zoology



Photo courtesy of Hal Black

Hal Black, a BYU zoology professor, holds a black-bear cub named Buffy earlier this year in Railroad Canyon.

Inside

BYU football team celebrates its first ever win over the Notre Dame Fighting Irish. See story on page 8.



Photo courtesy of Hal Black

SAY CHEESE: Hal Black shows off two of the young bears he and his students have studied.

Zoology professor aids in eradication of rural areas' tapeworm

By KRISTA DAYTON
Universe Staff Writer

Dog is man's best friend — until it passes on the worm.
Many developing countries have suffered for years from hydatid disease, caused by a tiny tapeworm that originates in the intestines of dogs.

A breakout of the disease occurred in Sanpete County in the late 1940s. Today, with the help of BYU zoology professor Ferron L. Andersen, the disease was brought under control in Utah, and his efforts have been extended to China and on to North Africa as well.

Andersen has done extensive research on hydatid disease and studied prevention methods.

The worm causing hydatid disease begins in the intestine of hosts like dogs and wolves.

It exits the canine as excrement on grass, which is eaten by grazing animals, like sheep and cows, and develops into the larvae stage.

Their remains of the grazers are often eaten by dogs and the worm completes its predator/prey life cycle.

"Humans become involved when they inadvertently ingest the tiny tapeworm eggs when they handle the carnivore host, like the dog," Andersen said. "Then the larvae form which is generally in sheep, or cows or pigs, can develop in people."

In the 1970s, Utah had 20 surgeries in a 10-year period for the disease, but just a few in the 1980s, and only one in the 1990s. It is not eradicated, but under control here, Andersen said.

Though the disease is virtually harmless in dogs and can be killed very easily, it is quite a different story with sheep and humans. The only way to cure it in people is through surgery, Andersen said.

"It is very preventable and we have been very successful here in Utah in bringing the disease under control through education and treatment of dogs," Andersen said.

"It is a problem with health education and preventive medicine," he said.

After his success in curbing the disease in Utah, Andersen was invited to China to help attempt to solve the same problem.

He has been working in China for the past seven years. The country has had 2,000 surgical cases a year.

"After having worked seven years in China, we were able to eventually get the data together to show them how to control it," he said.

Now he is on to other areas, with North Africa being the most immediate.

"This disease is a problem throughout the world ... specifically in developing countries that have poor standard of living where people must live in close proximity to their domestic animals," Andersen said.

As Andersen and his group have labored in different areas, they have



Cristina Houston/Daily Universe

PROBLEM SOLVER: Ferron Andersen, a professor of zoology at BYU, is involved in an effort to fight a type of tapeworm in China and Morocco. Cultural differences complicate the process, he says.

"This disease is a problem throughout the world ... specifically in developing countries that have poor standard of living where people must live in close proximity to their domestic animals."

-- Ferron Andersen, professor of zoology

they are using our program quite extensively in the little villages," Andersen said.

"Now we hope to do the very same thing in Morocco specifically then also have this extend throughout greater Africa."

Culture differences often prevent the crew from working as fast as they

otherwise could educating, preventing and treating the disease, he said.

"A tentative of the Islamic religion is to not kill unnecessarily and they do not want to kill dogs," Andersen said. "If they would kill all the stray dogs, this would help immeasurably," he said.

Now, they are trying to figure out

how to convince the Moroccan people that the rampant stray dogs have to be controlled first, he said.

He said children are the easiest to educate. His group has created coloring books, videos and other methods to teach children.

Humans contract the worm by ignoring measures such as washing

their hands after playing with the dogs.

"The eggs are microscopic and are just inadvertently ingested," he said.

Sometimes, the worm penetrates into the liver and lungs and number of years it gets so large, it has to be surgically removed. It can be anywhere in the body.

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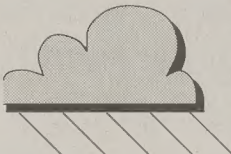
YESTERDAY in Provo

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Month to date: 3.00"
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TUESDAY



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"I know thy works, that thou art neither cold nor hot: I would thou wert cold or hot. So then because thou art lukewarm, and neither cold nor hot, I will spue thee out of my mouth."

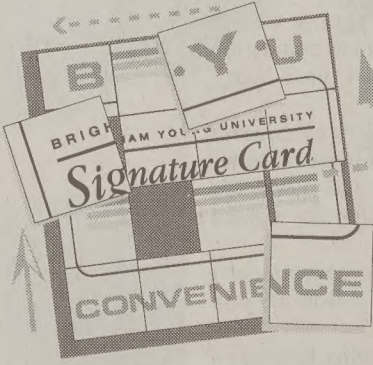
--Revelation 3:15-16

This is one of Megan Maxwell's favorite scriptures because "it reminds me of the consequence of only doing part of the things we should be."

- Megan is:
- a freshman
 - from Highlands Ranch, Colo.
 - majoring in elementary education



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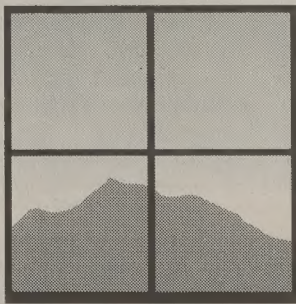
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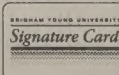
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Capstone provides students with real-life experience

By CHRISTIAN R. AIRTH
Assistant City Editor

Seniors in mechanical and manufacturing engineering are learning how to deal with real-world situations designing, developing and building products for companies through teamwork and technology.

The eight-month, two-semester Capstone program at BYU, headed by assistant professor Robert H. Todd, was organized five years ago to not only help seniors do their senior projects but to help companies who want to improve or develop a particular product.

As the Capstone coordinator, Todd oversees which projects students will work on and decides which companies they will work with.

Professors in the engineering departments work as faculty coaches for a particular project.

In addition to being the director of Capstone, Todd is working with students to develop an electric car for Ford Motor Company.

Professors within the department check on each other's projects to review progress and offer solutions in a monthly review.

Companies sponsor projects that students work on by pouring in thousands of dollars and underdeveloped technology to make the product better.

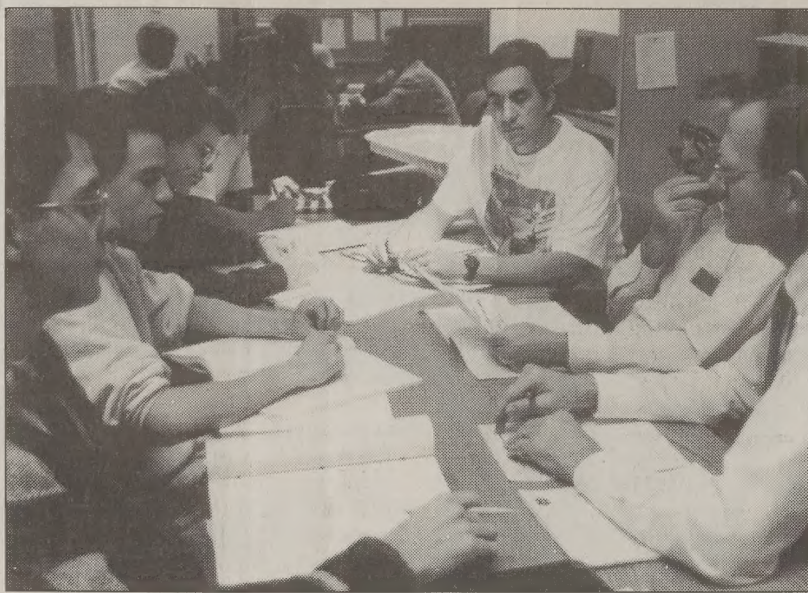
Companies that invest their money and technology in helping BYU students improve their products often receive excellent results, Todd said.

This year Capstone is being sponsored by 32 companies, the most ever. When the program began five years ago there were only four projects.

There are 174 students involved in Capstone divided into teams of five or six.

"They (teams) design and build projects in a team setting just like they would as if they working out in the industry," Todd said.

"Before students are divided into teams they are given a personality test, one developed by General Electric to identify the personality traits of people, to put people together on teams that are diverse."



Emily Barron/Daily Universe

PROJECT UPDATE: Marty Riker, left, Christian Jusinski, Kevin Evans, Kris Dearden, Jason Turner, Doug Stoct and Robert Todd participate in a Capstone group's monthly meeting to update each other on their projects. Stoct is the team's coach and Todd is the director of the Capstone program.

The diversity of each team is one of the most critical aspect of the Capstone program, Todd said.

"We get a better, realistic experience of learning for the students," when there are right-brained and left-brained people on each team, Todd said.

"There are industrial designers from the College of Fine Arts and Communications, they are very creative people, they are very outgoing and they do the sketching for us."

According to Todd each team needs at least one or two creative types to make it more diversified.

Different types of personalities make a group more able to problem-solve and find solutions.

"The teams are made up cross-functionally," Todd said.

"We want as much diversity as we can to get a better project and a better learning experience," he said.

With over 70,000 square feet of manufacturing space on the first floor

of the Crabtree Building, students are exposed to a wide variety of engineering and manufacturing methods.

Many of the machines and technology used are as high-tech and state-of-the-art as one would find in the real world, Todd said.

"Teams will write a functional specification, will do the concept generation work and evaluation work and they will go through the concept hardware," Todd said.

"We have an extensive manufacturing facility in the Crabtree. We have our own foundry, injection molding, casting, machining, waterjet cutting, grinding, whatever, we can make it."

Sponsoring companies will donate certain tools or technology so that the students can either make a product from scratch or improve an existing product.

Examples include the glove that astronauts wear in space, which was redesigned and improved, and the electric car.

"We want as much diversity as we can to get a better project and a better learning experience."

-- Robert Todd,
Capstone director

Todd owns an electric car, which he built very inexpensively on his own. He and a team of students have been given a Ford Festiva by Ford Motor Company to aid them in constructing an electric car.

Todd himself is researching along with other professors in the department on better communication methods in designing and developing a project.

Simple things like how to have an effective meeting with co-workers is one of the topics Todd is researching.

This research has a direct affect on the outcome of many of the projects students are working on, Todd said.

Todd has been at BYU since 1989. He said his previous experience with engineering students showed that they lacked communication skills and many times wanted to find high-tech solutions rather than simple ones.

He said this is one of the main reasons for the creation of the Capstone program.

Now many companies like Ford, Thiokol, Hewlett Packard, NASA, Pacific Gas and Electric and K-Tec consider BYU's Capstone program one of the most productive in turning out well-trained and well-educated manufacturing engineers, Todd said.

The focus of Capstone is for students not only learn to work with technology but to be part of a team, Todd said.

Real-world projects

Capstone, an eight-month manufacturing program offered by the BYU Mechanical and Manufacturing Engineering Department, gives teams of students the chance to develop products for major companies. Current projects and sponsors include:

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BYU MFET	Electric car	R. Todd
Arrow Dynamics	Silent anti-rollback device	C. Smith
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Engineer aids NASA with oceanic observation

Scatterometer helps correlate wind, wave action

By VALLIERE JONES
Universe Staff Writer

A BYU professor is doing research for NASA and will even have his work launched in space.

David Long, an associate professor in electrical and computer engineering, designed a scatterometer for NASA several years ago when he worked for NASA as an engineer.

Now he receives research grants from NASA and Jet Propulsion Laboratory in Pasadena, Calif., to gather data using a scatterometer.

He also designed a scatterometer to fly in space on a Japanese spacecraft during a joint effort with NASA.

"It's kind of fun that I designed something that will fly in space," he said. "It's exciting for an engineer."

He said a scatterometer is a machine that aims radar at water. The radar reflects off the water and produces data about the waves on the surface.

He said it also has wave gauges that measure height of waves and three anemometers that measure wind direction and wind speed as well as temperature and rain gauges.

Basically a scatterometer makes environmental and radar measurements and correlates the two to see how we can better understand how wind and waves interact," he said.

He also said scatterometers are usually used for remote sensing.

Long has a scatterometer on a sta-

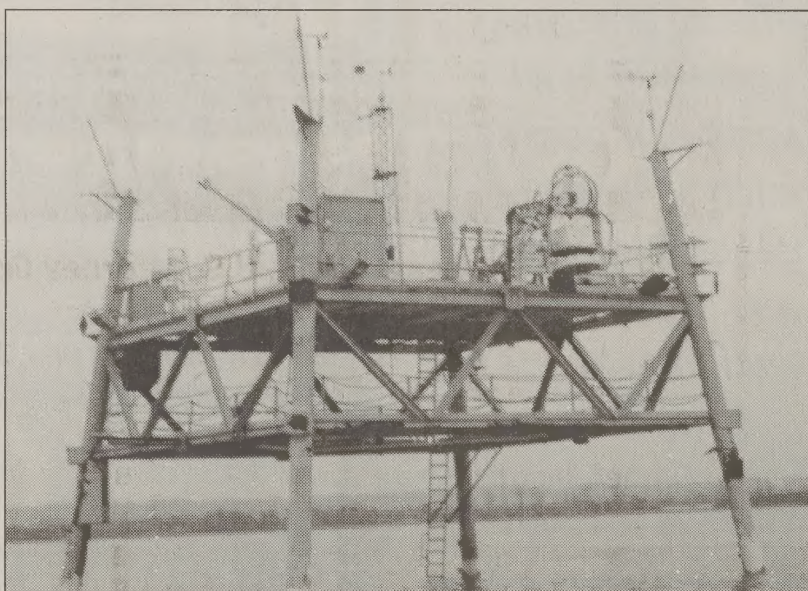


Photo courtesy of David Long

BYU PROJECT: Data from this scatterometer on Lake Ontario is analyzed by David Long, an associate professor of electrical and computer engineering.

tion on Lake Ontario. "The scatterometer is working pretty well," he said.

He is in the midst of a six-month experiment for NASA and Jet Propulsion Laboratory, but hopes to be able to continue experiments.

The data received from scatterometers are useful for everyone because they help us to better understand our world and the environment, he said.

"Scatterometers have been particularly useful in measuring winds and making weather predictions," he said. "They are not just helping scientists to observe, but are also helping scientists to make predictions about when a storm occurs and how heavy it will

be."

He said scatterometers also give information on global warming and deforestation.

"If regions of ice-sheet melt are identified every year, comparisons can be made about how much the earth's temperature is changing," he said. "This is an area in particular that scatterometers have made a contribution in because they haven't been used for this before."

He also said a scatterometer's enhanced resolution algorithms help scientists to study vegetation and see how much rain forest has been lost.

Long's work is part of a NASA pro-

gram called 'Mission to Planet Earth,' which is a large focus of NASA's work.

"The purpose of Mission to Planet Earth is to better understand the earth as a system," he said. "NASA studies and concentrates on the earth, not just space."

He also said the scatterometer helps NASA to better understand air and sea interaction, wind and waves.

"It's one small cog in a big wheel, but it's a crucial part of one of the gears," he said.

Long said pictures taken by a scatterometer stationed on earth are better than those taken in space.

"Radar pictures taken in space have a narrower swath than those of a scatterometer. A scatterometer has decreased resolution but a wider picture than other radar sensors."

He said his research develops new ramifications in scatterometry.

"I'm sort of well-known in the scatterometry field," he said. "As an engineer I designed a scatterometer but now I work in the scientific aspect."

Long said he also has other projects he works on for NASA and has been funded since 1988 in various aspects.

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Founders Day to honor Smoot family

Observation will highligh Homecoming Week festivities Oct. 24-29

KEONEI SALWAY
Daily Universe Staff Writer

to go to Provo or go to hell," Young is reported to have said to Owen Smoot in 1868. Smoot was the mayor of Provo City and bishop of the Provo Ward when Young asked him to go south to be Provo's bishop. Douglas Smoot, Abraham Smoot's great-grandson, said that the initial protest, the story of the time Smoot heeded the command, and seven years later, when Smoot heeded the command, was his first president and a champion, ... nourish(ing) what has become a fruitful Brigham Young University," said Liddiard. Liddiard read from a T-shirt that said "Founder's Day." Smoot, the dean of the College of Engineering and Architecture, who co-authored a book about his ancestor's life that is due in Provo for Founder's Day, said the story is apocryphal. "I thought of him not doing anything but the prophet asked is everything else in the book, but it's a cute story," said Liddiard. "What makes the story unbelievable is that Abraham Smoot served as president of the Church of Jesus Christ of Latter-day Saints' Perpetual Education Fund before Young went to go to Provo, Douglas said.

Fraser, a freshman from Provo, is Abraham Smoot's great-granddaughter. She said the story is true.

Fraser said she did not know the exact wording of the story.

ALLIERE JONES
Daily Universe Staff Writer

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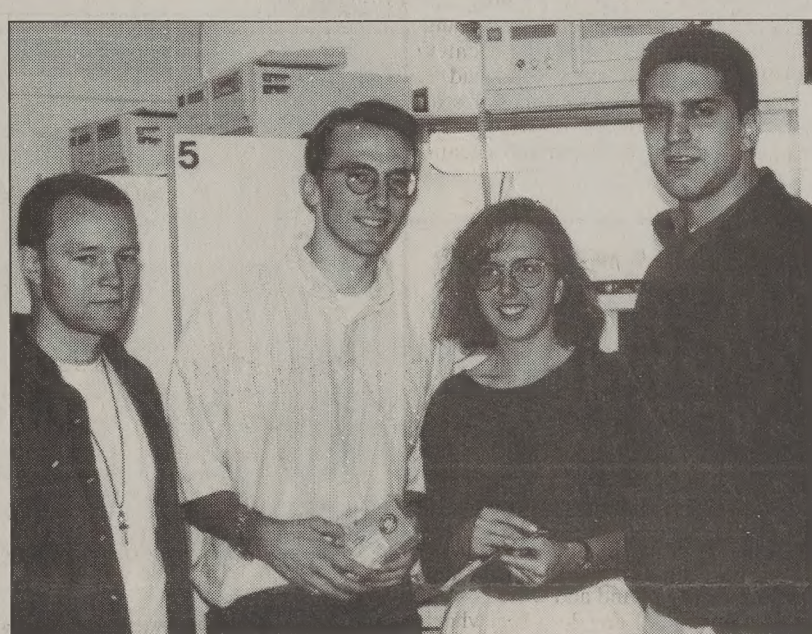
Fraser said she did not know the exact wording of the story.

"The very thought of him not doing exactly what the prophet asked is contrary to everything else in the book, but it's a cute story."

-- Douglas Smoot,
great-grandson
of Abraham Smoot

the conversation is accurate, Abraham Smoot did contribute to BYU's growth, and the University will honor his descendants by hosting a family reunion for them during Homecoming Week, Oct. 24-29, said Liddiard, a senior from Provo majoring in botany and biotechnology. Douglas Smoot, also president of the A.O. Smoot Family Organization, is coordinating the reunion activities, most of which will be on Monday and Tuesday of Homecoming Week. He said he expects approximately 500 family members to come from nearly every state. Abraham Smoot had 24 biological and 11 adopted children, and eight of his grandchildren are still living, Douglas Smoot said.

BYU students fare well in dairy competition



Christian Hellum/Daily Universe

DAIRY EXPERTS: The team of Gordon Fralick, left, Cameron Broadbent, Dawna Cook and Jonathan Fisher placed third in a national competition earlier this month.

are ranked higher than others. "The defects that are harder to find are ranked the highest," he said. Ogden said milk and butter are judged on flavor only, but the other products are judged in areas like taste, color and texture. Cook said everyone tried all the products, but some are better at certain products or areas than others. "Some can taste things others can't," Fisher said none of the contest samples were horrible. "All samples used were supposed to be sellable," he said. Broadbent said participating in the contest will help them in their professions. "If we get into the industry, we'll be able to detect defects more quickly," he said. Fralick said applications to their professions go beyond dairy products. "When examining any ingredient or product you look for similar qualities," he said. He also said as food science majors,

they could go into any food-science field. "We could even taste dog food," he said. Fisher said food science is not a cooking and tasting major. "It involves a lot of chemistry and biochemistry," he said. Fralick said there is a difference between the food science and nutrition or dietician majors. "Nutritionists and dieticians cover what food people should eat," he said. "We're an individual science and we control food quality." Broadbent said team members practiced for the contest by sampling products in local stores. "We found lots of defects the normal consumer might not pick up," he said. He said they find defects in products everywhere, even at BYU. "I was at a breakfast on the DT field once and had some milk that had been sitting in the sun. It wasn't spoiled, but I just about spit it out," he said.

Photo by Pretty Woman

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RLDS historian to lecture on photos of Joseph Smith

Universe Services

"Hidden Things Shall Come to Light: Photographic Images of Joseph Smith, Jr.?" is the title of an illustrated lecture to be given on Tuesday. The public is invited to the lecture at 8 p.m. in 1170 TMCB by Ronald K. Romig, church archivist for The Reorganized Church of Jesus Christ of Latter-Day Saints. Romig will speak about the creation and use of visual materials in the early days of The Church of Jesus Christ of Latter-day Saints. In the 1830s, LDS oil, portrait and photographic artists captured a visual story of the Church. Romig will focus on the question, "Was Joseph Smith, Jr. ever photographed?" He will specifically explain attempts to prove or disprove the authenticity of a possible early daguerreotype, a photograph produced on a silver or a silver-covered copper plate.

ver or a silver-covered copper plate. "They think they have a photograph of Joseph Smith, but it's impossible to tell," said Jessie Embry, oral history program director for the Charles Redd Center for Western Studies. Some daguerreotypes are simply photographs of paintings, she said, so Romig and others have done extensive research to try to determine if this one is authentic. Romig has archival training from Drake University and the National Archives' Modern Archives Institute. He has published articles about Jackson County, Mo., historical visual materials and the mapping of historical sites. He is a member of the John Whitmer Historical Association and the Mormon History Association and serves on the board of the MHA council. Romig is an elder in the RLDS Church. His lecture is sponsored by BYU's Charles Redd Center for Western Studies.

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72			73	E		74		75	A		76
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ACROSS

- 1 Kindergarten's song beginning
- 3 Cougar eat specialties
- 13 Tells ahead of time
- 15 Never, never, never
- 18 Later
- 20 7th mo.
- 21 Hosiery flaw
- 22 Like a little child
- 26 Or not to
- 27 Iron
- 28 Algerian port
- 29 Kind of corn
- 31 Helaman's snackbar
- 33 within audio range
- 35 Spartacus, for one
- 38 Snack attack answers
- 42 Monetary oblig.
- 43 Nickel
- 44 Life prefix
- 45 Alphabet trio
- 47 Social security
- 48 Admin. grp.
- 50 Noonday meal
- 54 ___ and off
- 55 Unscramble
- 57 Party
- 58 Not left abbr.
- 59 Student eateries
- 60 "___ o' at old McD's
- 61 Green eggs and ___
- 62 Bible half abbr.
- 63 Kitchen duty
- 65 Ecosystem watchers
- 66 Titanium
- 67 BYU ice cream store
- 72 Bird's address (next to nest "d")
- 75 Crazy
- 76 ___ top of
- 78 Rest above the rest
- 79 Equatorial constellation

DOWN

- 1 Way over there
- 2 Add on
- 3 ___ little indians
- 4 I'm sorry
- 5 Sidewalk for one
- 6 Either ___
- 7 Candy and chips
- 8 Arsenic
- 9 One
- 10 Eight bits (H.S. cheer)
- 11 Compass direction
- 12 4th largest collegiate bookstore
- 14 Informal name for 40th U.S. pres.
- 16 Racer Foyt
- 17 ___ the night away
- 19 Cup ___ or walk
- 22 Students' nemesis
- 23 For ___ (inexpensive)
- 24 Aloha
- 25 Theatrical degree
- 27 Nixon V.P.
- 29 Diamond hitter stat
- 30 Invitations abbr.
- 31 Vegetable holders
- 32 Stuffed pasta
- 34 Nearby star
- 36 Writes
- 37 Remove water
- 39 Canadian prov.
- 40 Puma dine
- 41 Einsteinium
- 46 Unjoin
- 48 American Expeditionary Force
- 49 Yucky, disgusting experiences abbr.
- 51 National Academy of Sciences
- 52 Chlorine
- 53 MASH doctor
- 55 grayish red
- 56 Ambulance destination
- 59 Fear and Town
- 61 Kind of house
- 64 Public relations abbr.
- 68 P.E. bldg.
- 69 1/100 of a kip
- 70 Proselyte prep. place
- 71 Second person
- 73 BYU Heisman winner
- 74 Just say ___
- 77 Canadian prov.

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34 Nearby star	61 Kind of house
36 Writes	64 Public relations abbr.
37 Remove water	68 P.E. bldg.
39 Canadian prov.	69 1/100 of a kip
40 Puma dine	70 Proselyte prep. place
41 Einsteinium	71 Second person
46 Unjoin	73 BYU Heisman winner
48 American Expeditionary Force	74 Just say ___
49 Yucky, disgusting experiences abbr.	77 Canadian prov.

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Water subject of teleconference

Panelists debate environmental uses, upkeep of crops

By TEONEI SALWAY
Universe Staff Writer

Despite differing priorities, world leaders must work together to preserve dwindling water supplies, panelists said Friday in the 11th annual World Food Day teleconference to commemorate the 1945 founding of the United Nations' Food and Agriculture Organization.

In the past, more water has been allocated for food production than for environmental concerns and now the land and people are suffering, said Sandra Postel, director of the Global Water Policy Project in Massachusetts.

California officials, for example, once took water from fisheries to grow tomatoes, said Rita Sudman, executive director of the Water Education Fund in California.

More recently, state officials legislated doubling the size of fisheries, which took water away from agriculture, Sudman said. Now California is in a famine and crops need more water, she said.

"The pie is not getting bigger," Postel said. "We have to reallocate."

In recent years food production, technology and city development and maintenance have taken the majority of water used, she said.

"We have to put the environment back into the equation," Postel said. "Human systems depend upon water systems."

systems."

In areas of the world less technologically developed than the United States, the choice to devote irrigation water to fisheries is not as easy, said Jose Felix Alfaro, a water resource planner in Peru.

"You are in California where you can get food in the supermarket," Alfaro told Sudman. "In South America, if you make \$14,000 every year (like is common in California), you are rich! ... I need to eat today. ... Am I going to worry about the environment?"

Postel thought he should. "The environment isn't just a luxury item," she said. "I don't think we can say 'Let's get to a certain level of development and then look at the environment.' It's not just an issue for the rich. It is an issue for everyone."

Yet Alfaro said poor South Americans' environments are their families, which Sudman also seemed to feel was too narrow.

"An environment for a mother might be clean water for her children but that's part of a larger picture," she said. Hans W. Wolter, a Food and Agriculture Organization representative from Germany who deals with water issues, recognized the conflicts in each area.

"It's up to every country to set priorities," Wolter said. "The world organizations are trying to assist in the process of arranging priorities."

Railroad-crossing dangers stressed

Orem man's death follows companies' safe-behavior requests

By MARK GOLDRUP
Universe Staff Writer

An Orem man was killed Tuesday in a train-automobile collision that came on the heels of train company efforts to increase public awareness of railroad crossings.

Bart Bigler, 19, of Orem, was crossing a set of train tracks on 400 South in Orem at 10:11 p.m. The Amtrak train's engineer told police that Bigler seemed to not see the train coming.

When he saw the train, he stopped and hesitated, then tried to gun the engine, but was struck by the train before he could move his car, the engineer said in the police report.

"(The train) ripped the car in half.

We're sure he was dead on impact," said Gerald Nielsen, an Orem police detective.

The intersection is posted as a railroad crossing and has a stop sign, but no flashing lights or restraining arms, Nielsen said. Another automobile-train collision took place there about two months ago, killing two, Nielsen said.

"If there had been lights and arms, it might have saved (Bigler), I don't know," Nielsen said.

Utah train companies, as recently as two weeks ago, have engaged in public relations campaigns to warn the public about the perils of crossing the tracks.

On Sept. 29, Southern Pacific Transportation Co. sponsored Operation Lifesaver, taking law enforcement officials and media on a train ride to observe motorists and pedestrians risking their lives in front of trains.

Traveling from Salt Lake City to

Spanish Fork, participants saw cars drive around restraining arms to cross in front of oncoming trains. They also saw one motorist who pulled up too far and had the restraining arm slam down on the hood of her car.

Officials from Southern Pacific said Utah has more than 1,800 public and private railroad crossings. Six deaths and five injuries resulted from car and pedestrian collisions with trains last year in Utah.

Nielsen said he thinks train companies work hard to keep intersections safe, and often accidents are the result of motorists or pedestrians taking unnecessary risks. But he stressed that Bigler was not purposefully taking any risks, but seemed to have been unaware that a train was coming.

Orem police make a special effort to enforce traffic laws regarding railroad crossings, Nielsen said.

He said the police send a patrol car as often as they can to watch railroad crossings and ticket violators.

Leavitt joins fight to oust Orton from Congress

By RICH VALENTINE
Universe Staff Writer

Utah Governor Mike Leavitt joined Republican officers to support Dixie Thompson's bid to replace Bill Orton as representative of Utah's 3rd Congressional District at the Utah County Courthouse Saturday.

Republican Sen. Orrin Hatch was also scheduled to appear but did not. The rally, which was attended by over 100 people, promoted Thompson's race for Congress, as well as Republicans campaigning for election in Utah County.

"Our feeling is this is a big year in the nation," said Mason Bishop, Utah County Republican Party secretary.

"There's a good chance that the Republicans will take control of the House and Senate. We feel a vote for Bill Orton is a vote for Bill Clinton, and a vote for keeping Democrats in control of Congress."

A reoccurring theme in the rally was the federal government's involvement with state and local laws.

"This campaign is about sending a message, that we're tired of top-down, one-size fits all, federal mandates," Leavitt said.

"We're tired of a federal government that tells us how they can make decisions in our counties and cities better than we can."

The Thompson campaign received \$60,000 from the National Republican Congressional Committee to compete against Orton, Thompson said. But the money may not help.

"She's behind in some of the polls," Bishop said.

"But this is an unusual political year. We feel like anything can happen. So we're working our hardest to assure we get our people out to vote," he said.

Thompson charged that Orton votes to increase federal mandates and increase the power of the federal government over the states.

"We can't afford him anymore," Thompson said.

Another Republican theme at the rally was to vote Orton out in order to give Republicans a majority in the House and Senate.

Thompson stressed that Orton had voted with President Clinton nearly two-thirds of the time on legislation.

However, members of Bill Orton's campaign for re-election disagree



Tobias Bradford/Daily Universe

REPUBLICAN RALLY: The Utah County Courthouse was the scene of a Republican Party rally Saturday to drum up support for Dixie Thompson. She is running for the Third Congressional District seat against Democrat incumbent Bill Orton.

with this.

"Congressman Orton is willing to support the President when he thinks he's right," said Jenny Wilson, Orton's campaign manager.

"He supported President Bush 60 percent of the time and the congressman has supported Bill Clinton the same amount," Wilson said.

According to Congressional Quarterly's "Politics In America:

1994: of the 103rd Congress," Orton supported presidentially-backed legislation 55 percent of the time in 1992.

Utah democrats are downplaying the notoriety of Leavitt's support of Thompson.

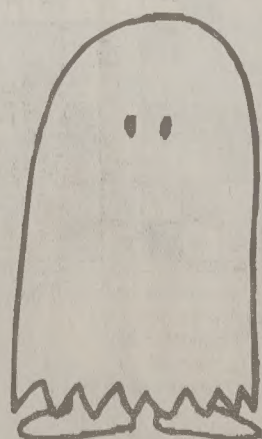
"I think the governor has endorsed so many candidates that his endorsement is meaningless anymore," said Todd Taylor, executive director of the Utah State Democratic Party.

Community Calendar

Oct. 21

Reception to welcome Bernardo Toscano, a representative of the Cuban government who will give a keynote address and answer questions. Toscano will speak on the issues surrounding Cuba today. The reception will be at 6 p.m. in room 275 of the Olpin Union Building at the University of Utah.

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Group seeks students' cancer awareness

Breast-cancer lecture to be held Wednesday

By GISELLE HARDY
Universe Staff Writer

A BYU Cancer Awareness Group has been formed to educate students and faculty about cancer and cancer prevention, said Lance Manning, president of the Cancer Awareness Group.

The group has also been formed to provide service to the campus and the community in association with the American Cancer Society, Manning said.

"College students aren't exempt from getting cancer," said Manning. "I used to have cancer but I was cured."

"A lot of people don't think it can happen to them, no one is immune," said Nathan Mangelson, a member of the awareness group.

"I have seen how rough cancer is on people, so I help out where I can," Mangelson said.

Members of the Cancer Awareness Group include students who have suffered from cancer themselves, students who feel it is a worthy cause to educate about cancer and several pre-med students, Manning said.

"It is important to educate students about cancer so that they can take this knowledge with them wherever they may go," he said.

One goal of the awareness group is to educate others about prevention so that cancer can be caught at the source before it develops, said Karl Kirby, vice president of the Cancer Awareness Group.

"I would like all of campus to be aware of cancer prevention and detection. And, for those would like help, to get involved," Manning said.

The awareness group is currently providing a breast-cancer education booth on the south side of the library in conjunction with Breast Cancer Awareness Month, Manning said.

The public has been asked to wear

pink ribbons in support of Breast Cancer Awareness Month.

These ribbons are available at the booth, he said.

The BYU Cancer Awareness Group is sponsoring a lecture on breast cancer on Wednesday at 7 p.m. in 260 TNRB.

Dr. Kim O'Neill, a renowned cancer researcher and visiting professor, will be the speaker.

The Cancer Awareness Group is

affiliated with the American Cancer Society.

The group's mission is to prevent cancer as a major health problem, preventing cancer, saving lives, diminishing suffering from cancer through research, education and vice.

The American Cancer Society supplies the BYU Cancer Awareness Group with all of its educational information, Manning said.

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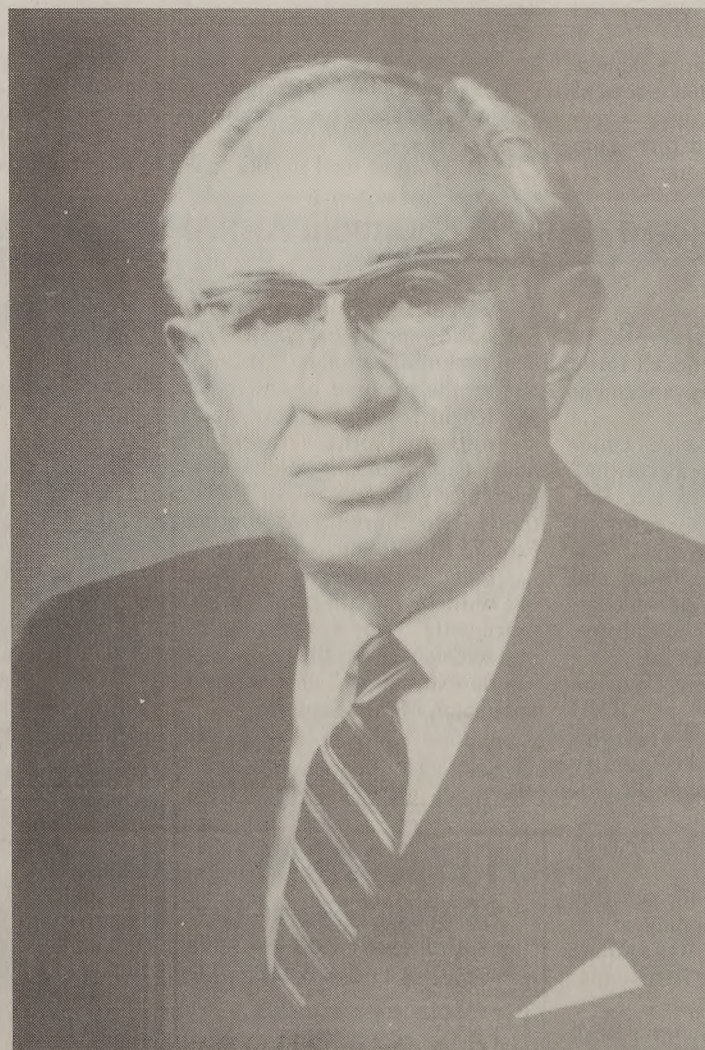
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Lifestyle

Homecoming Spectacular honors people who have followed a dream

RUTHANN BRINSON
Universe Staff Writer

Homecoming Spectacular will be performed Oct. 29 in the Marriott Center. The performance begins at 7:30 p.m. and are \$7 below concourse and above concourse. Tickets can be purchased at the Marriott Center ticket office.

The theme to Homecoming Spectacular is "First A Dream." It is a play off an inscription on the Washington Monument which says "These truly, great things happen where is first a dream."

This year's Spectacular is honoring individuals who have followed dreams through all obstacles.

"We're focusing on people who had a dream," said Michael G. Handley, producer and scenic and lighting designer of Spectacular.

William O. Smoot, the first president of the board of trustees of the Young Academy, and honorees in this year's ceremonies is one of them.

William O. Smoot was a man with a vision," Handley said. "He saved the institution from financial ruin."

This year, Spectacular is featuring

Metropolitan Opera star Ariel Bybee. "Ariel Bybee was in the music program at BYU," Handley said. "She had a dream."

"Ariel has gone on to become an

"This is an opportunity to see one of the most refined performing musicians in the country. It's not everyday we have a metropolitan opera star spending a week with us."

— Michael G. Handley, producer of Spectacular

opera singer with the Metropolitan Opera," Handley said. "She's returning to celebrate this dream with us."

"This is an opportunity to see one of the most refined performing musicians in the country," Handley said. "It's not everyday we have a metropolitan opera star spending a week with us."

Spectacular will also feature the BYU Philharmonic, the Young Ambassadors, BYU singers, the

Dancers' Company, BYU Opera Workshop, Concert Choir and other select soloists.

Pieces from musicals such as Carousel, Carmen, and The Sound of Music will be performed, along with music from George Gershwin and Leonard Bernstein.

"Ariel will be singing a familiar piece from the musical Carmen, and will be featured in select pieces from Carousel," Handley said.

"There will be several numbers where we're combining some of these groups," Handley said. "Pieces from Carousel will feature Ariel, the Dancers' Company, BYU Singers and Philharmonic, and select soloists."

"It will be a very elegant, very formal evening, not necessarily in dress but in the presentation of material," Handley said.

"It's an elegant stage setting and performance," Handley said.

"Scenically, the most beautiful part of the show is in Carousel when we magically construct a Carousel in front of the audience," Handley said.

Spectacular has been in the making for some time.

"We've been working on this for a full year," Handley said.

The Homecoming Executive Committee is a year round functioning committee."



Photo courtesy of BYU Theater and Film Department

Playing to survive: Fania (Pamela Peterson), left, and Alma (Tayva Patch) confront surviving in a camp with different outlooks in "Playing for Time." The play performed at BYU has been extended because of sold-out performances.

'Playing for Time' extends schedule

ALANA SCHIFFMAN
Universe Staff Writer

Performances of "Playing for Time," by the BYU Theatre Department, will be extended another two weeks, Oct. 18 through 21, in the Marriott Center.

The play depicts the attempt of Jewish inmates at the German concentration camp in Auschwitz, Poland to survive by playing music for the camp officers.

High demand at the box office prompted the extension of "Playing for Time."

According to Michelle Standley, who works at the Theatre ticket box office, performances that sell out have the option of extending their show times. "It's been selling out completely every night," Standley said.

"It's probably the best show I've seen in the three years I've been here," said Nikki Jacobsmeyer, productions secretary in the Theatre and Film Department.

It has been recommended by the American College Theatre to represent the region. The second adjudicator will confirm the decision during

this Friday's performance, Jacobsmeyer said.

"Playing for Time" is one of the few shows that has been selling out from the very beginning, said JoAnne Orton, a theatre major from Provo and one of the actors in the cast.

"We had a wonderful opening night" and both previews sold out, Orton said. "The reception we have gotten has been extremely positive."

Tickets are \$6 for students, faculty and staff, \$7 for senior citizens and BYU alumni, \$8 for the general public and are still available at the Fine Arts ticket office, 378-4322.

Hiking Utah in the fall has advantages

ALANA SCHIFFMAN
Universe Staff Writer

A pile of gold dips beneath the snow of Utah Lake as its light scatters across the mountains of the state. How, brown and orange.

At the top of the mountain is almost a cool breeze chilling any visitor from exhaustion. We finally reach the last incline.

The entire city becomes visible light as the sun throws a black blanket over

the sky and fire in the trees," said Daniella Benson, a junior from Orange County, Calif., majoring in linguistics.

"When you're on top of the mountain you can see the sunset, the leaves, and the way the rock shines red."

— Allison Szendre, junior in education

tain you can see the sunset, the leaves, and the way the rock shines red," said Allison Szendre, a hiking buff and a junior from Kennewick, Washington, majoring in education.

"It's nice to get above the pollution," she said.

Compared to the green state of Washington, Szendre said there are many beautiful places to go hiking in Provo.

Squaw Peak is her favorite, followed by Timpanogos with both the Aspen Grove and American Fork Canyon trails.

Besides the multi-colored leaves, many students agree that another advantage of hiking in the fall is that the weather is much cooler than in the summer.

"It's much more peaceful without the sun pounding down on you all the time," Szendre said.

One native Utahn enjoys hiking in the fall for a reason more different than the majority.

"Being from Utah, I sometimes take the mountains for granted. I find ways to make hiking more interesting," said Jennifer Anderson, a junior from Salt Lake City, Utah, majoring in music. "I like to gather the leaves and make Indian headdresses and whoop the war cry."

Mountain Dew bottles recycled into underwear

Associated Press

WOLFEBORO, N.H. — That bottle of Mountain Dew that cooled you off in the summer may keep you warm six months later.

Wickers Sportswear Inc. is working to lessen both winter's cold and America's landfill use by making thermal underwear and other products from recycled plastic.

Wickers is among a growing number of U.S. companies turning recycled plastic into underwear, T-shirts, backpacks and other products.

Navy blue and Mountain Dew green are the only colors available for its thermals — green because of the bottles' color and blue because that is the only environmentally safe dye the company has found, said quality control manager Carol Metivier.

In November, the mail-order company Lands' End will begin selling 100 percent recycled underwear made by Wickers.

Wickers president and owner Anthony Mazzenga hopes to have the underwear in specialty shops by August and September. Tops and bottoms, for men and women, will sell for \$22 each, the same as comparable thermal underwear made of nonrecycled material.

The Commack, N.Y.-based company makes its thermals at a Wolfboro factory where most of its 75 employees work. It expects to sell about \$400,000 worth of thermals this year.

Overall sales at Wickers have nearly doubled since 1991 and sales this year are projected at \$20 million, Mazzenga said. He declined to disclose profit figures for the privately held company.

The fabric Wickers uses for its thermals comes from the fiber Fortrel EcoSpun, made by Wellman Inc., a plastic recycler and polyester producer. The garments are as warm as thermal underwear made from virgin material, Mazzenga said.

Wellman has been making its recycled product out of used soda bottles since 1979, but it wasn't until two years ago that it produced a fiber soft enough for clothing, said spokeswoman Judith Langan.

Wellman can keep 2.4 billion bottles per year out of U.S. dumps and another 250 million bottles out of foreign dumps.

Wellman melts plastic bottles and then converts them to fiber, which it sells to companies that knit or weave it into fabric.

Wellman is the only company to make fiber from 100 percent recycled goods and Wickers is the only company to make 100 percent recycled underwear, Langan said.

Last year, two companies bought Wellman's recycled material — Wickers and Patagonia Inc. Today, Wellman sells to at least 70 companies.



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Ariel Bybee

Once the star of numerous BYU operas, Ariel Bybee—of Metropolitan Opera fame—will return home this fall. As the featured guest at BYU's Homecoming Spectacular, the mezzo-soprano will leave New York City to journey back to where her dreams began.

Miss Bybee will be performing some of her favorites from *Carmen* and *Carousel*, which has recently enjoyed a stunning revival on Broadway. She will share the program with BYU's Philharmonic Orchestra, the Young Ambassadors, The Dancers' Company, University Singers, and the Concert Choir.

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— First A Dream —

Sports

Cougars shock Irish, 21-14

By KENDAHL JOHNSON
Universe Sports Writer

Football fans gave Brigham Young little chance of winning against 17th-ranked Notre Dame, but the Cougars showed that they can still play like national champions, defeating the Irish in a highly emotional 21-14 victory.

A balanced attack on offense and a relentless defense was too much for Notre Dame, which has suffered two consecutive defeats at the hands of unranked opponents for the first time since Lou Holtz has been coach.

"This is the biggest win I have ever been associated with by far," said receiver Bryce Doman. "Beating Notre Dame at Notre Dame — it doesn't get any better than this."

The players echoed the sentiments of Doman, agreeing that the victory over Notre Dame was one of the most exciting events in the history of football at BYU, comparable to the defeat of Michigan in the 1984 Holiday Bowl for the national championship and the defeat of no. 1 Miami in 1984.

Quarterback John Walsh, who completed 17 of 31 passes for 216 yards and one touchdown, played what he called his "best game ever."

"This is a big win for BYU and the biggest in my career," Walsh said. "Hopefully people out there will recognize that we do play some football in the West... Maybe we got some respect today as a Top-20 team."

Other team members had career games, including stand-out running back Jamal Willis. Willis rushed for 75 yards and one touchdown on 18 carries. He also led the team with five receptions for 83 yards and another touchdown.

Despite missing key players in the secondary, the defense also played well.

"I was particularly pleased with our defense today," said Coach LaVell Edwards. "They made the plays when they had to."

The defense recorded four sacks and held the ground-oriented Irish to just 115 yards rushing.

Despite pregame optimism from the Cougars, the game did not start well for BYU. The Irish drove 62 yards on their first possession, scoring on a 41-yard touchdown scamper by Randy Kinder.

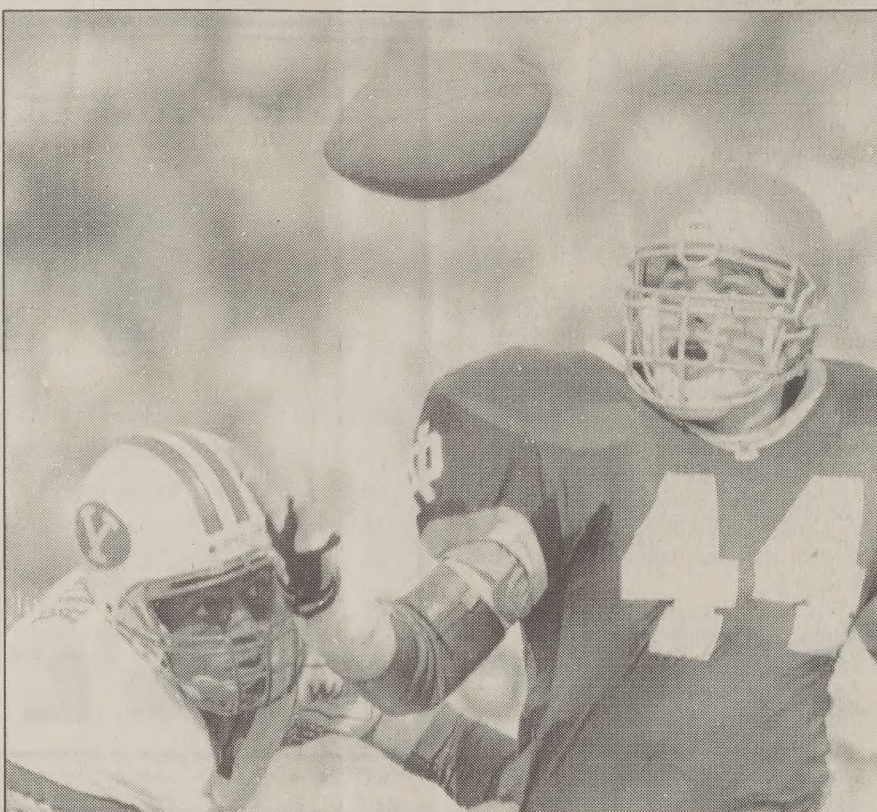
On the ensuing kickoff, BYU muffed the kickoff and Notre Dame recovered inside the twenty yard line.

However, momentum shifted as the Cougars shut down the Irish offense for three straight plays and Schroffner missed a field goal.

"We just wanted to believe in ourselves and play football," said defensive end Travis Hall.

On its next two possessions, BYU scored on field goals by kicker David Lauder. Lauder, who had not made a field goal over 40 yards this season, connected on kicks of 49 and 48 yards to bring the Cougars to within one point.

The luck of the Irish seemed absent on the next posses-



AP Photo

HOW THE MIGHTY HAVE FALLEN: Notre Dame's Marc Edwards (44) keeps his eyes on the ball after BYU defensive back Jamie Cook knocked the ball from his hands. After BYU's 21-14 win in South Bend Saturday, the Cougars moved up to No. 18 in the CNN/USA Today poll.

sion, when a miscue between Notre Dame's quarterback and center resulted in a fumble recovered by BYU. The Cougars capitalized on the mistake, driving 45 yards for the go-ahead touchdown, a 19-yard reception by Willis.

Following a 55-yard bomb to wide receiver Derrick Mays, Notre Dame was able to recapture the lead with 34 seconds left in the half. Mays made a 7-yard touchdown reception to give the Irish a one point halftime lead.

The second half started much like the first. After holding the Cougars three-and-out, Notre Dame took over possession and threatened to take control of the game, driving the ball 64 yards in 14 plays for a first and goal at the Cougar 3-yard line.

The Cougars defense took over, stopping the Irish on two straight running plays. On a crucial third-and-goal play, blitzing safety John Pollack sacked ND quarterback Ron Powlus for an 18 yard loss. The Irish came away empty, after Chad Lewis blocked a field goal attempt.

Inspired by the goal-line stand, the offense marched the ball 77 yards in 13 plays for what proved to be the winning touchdown — a 1-yard plunge over the top by Willis. BYU converted the two-point conversion when Walsh tossed the ball to Hema Heimuli in the corner of the end zone.

"Right then, I did more than believe we would win, I knew," said center Jim Edwards. "It was almost a sure knowledge. All of the players could feel it."

The Cougars gave the Irish one last chance when Mark Atuaia fumbled the ball and Notre Dame recovered. They were unable to capitalize, however, as a fourth down pass to Mays was incomplete, and Walsh was able to down the ball to run out the clock.

V-ball team dominates on road trip

By ANGIE CURTIS
Universe Sports Writer

After dominating the WAC for three weeks at home, the BYU women's volleyball team continued its winning streak on the road last weekend with wins over 18th-ranked University of New Mexico and University of Texas El Paso.

The Cougars beat New Mexico in Albuquerque Friday night in three quick games with scores of 15-11, 15-6 and 16-14. The match lasted one hour and 15 minutes. BYU performed Friday with a hitting percentage of .242 while holding New Mexico to a percentage of .034.

In addition to the 2,338 fans in attendance at Johnson Gym in Albuquerque, the match against New Mexico was nationally televised on the Prime Sports Network.

Cougars Angie Walker and Gale Oborn showed impressive skills on offense and defense. Walker put away 12 kills as well as making nine digs. Oborn had 11 kills and also tallied nine digs.

All-American Charlene Johnson completed 23 assists against the Lobos, inching even closer to the 5,000 career assist mark, a number no woman Cougar has ever reached.

Saturday night BYU traveled to El Paso and also defeated UTEP in three quick games, 15-4, 15-0 and 15-11.

The Cougars were able to reach a hitting percentage of .275 against the Miners while holding the UTEP team to a hitting percentage of .060.

BYU starters were taken out soon after BYU's domination began. Walker scored ten kills and was replaced with senior Cynthia Reeves, who put away 23 kills in just two games. Johnson was taken out of the match after tallying 34 assists and was replaced by sophomore Laci Olmstead.

BYU's season record now stands at 14-3, while the Cougars' WAC record is 6-1. The BYU women's volleyball team is now home preparing for two non-conference matches this weekend against Oklahoma and California.



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BYU soccer squad wins 11th straight

By ED CARTER
Universe Sports Writer

BYU women's soccer team had parts functioning in a 2-0 win over Colorado University at HAWS on Friday night.

Cougars have beaten 11 opponents without a loss since September 1982, now sport an overall record of 21-1-1.

Coach Milan Misuta said everything working in its favor for his club.

"This is a very good team," Misuta said. "They are dangerous offensively in their midfield plays well. The defense is also good."

Again the Cougars relied on the right leg of Heather Dahl, Rachel Jensen and the defensive style of the Monahan sisters (Kelle and Ashley) and the forwards (Camille and Emily).

However, Rebecca Hansen and Amanda Johnson each netted a goal to seal the U.

Dahl (Mudge) crossed the ball and into it," Hansen said. "All I had to do was kick it in."

Dahl said the Cougars played intelligent soccer than they did against Weber State.

"I thought we had the ball in control and much better passing," Hansen said.

Coach Jennifer Rockwood said she praise her team.

Rockwood was not as aggressive as the Cougars. "But we were frustrated at our inability to score."

Rockwood said BYU recovered from a poor showing against Weber State by settling down its play against Colorado.

Of Colorado's losses this season



Emily Barron, Jason Brown/Daily Universe

OFFENSIVE DRIVE: BYU's Becca Hansen, right, shields the ball from a University of Colorado defender during the Cougar's Friday night game. Hansen scored one of two goals in BYU's 2-0 victory.

son came at the hands of the Cougars. But Buffalo forward Mikki Mays said her team is improving.

"We played better than last time," Mays said. "The difference in the game was they attacked more."

BYU will take its high-powered attack on the road this week. The Cougars head to Oregon for three weekend games before returning to the Beehive State to play Utah State October 27.

Cougar netters dominate

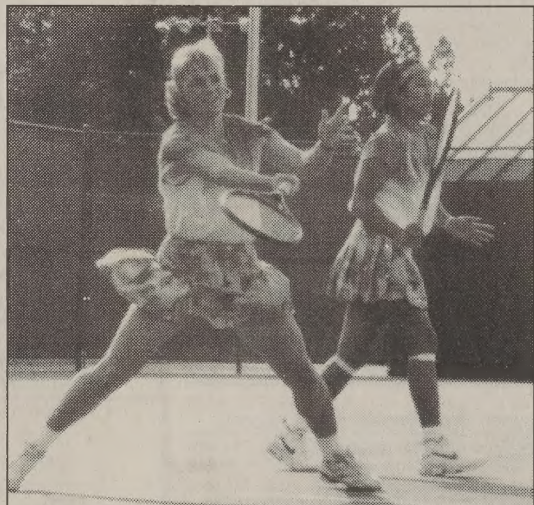
By PAUL HAFLEUR
Universe Sports Writer

BYU women's soccer team won all six matches in the BYU Invitational tournament.

They are very pleased with their six-out-of-six record," said BYU coach Ann Valentine.

"We saw nine tennis today, and only in No. 1 singles."

Junior Jennifer Dahl, No. 1 seed in the First Flight of singles, defeated Cougar graduate Cherie Chahiri, 5-7, 7-5.



Amy Bergeson/Daily Universe

DOUBLE ACTION: Julie Meneffee, left, and Jennifer Saret compete in the First Flight Doubles championship Saturday.

said. "The team is really close. I want everyone to do well."

Coming into the tournament, Coach Valentine said this year's BYU Invitational would be more challenging than last year's because of the number and quality of the teams. She also said she liked how the team is progressing.

"BYU won the flights last year, but the field was not as strong," Valentine said. "Each team has good depth. I think it will be a great opportunity for the players. We have been surprised at the player intensity and at the improvement that was made over the spring."

The Record Book

BYU vs. Notre Dame Box Score

Score by Quarter	1st	2nd	3rd	4th	Final
BYU	3	10	0	8	21
Notre Dame	7	7	0	0	14

	BYU	ND
First Downs	20	18
Net Yards Rushing	104	115
Net Yards Passing	216	242
Passes Attempted	31	28
Passes Completed	17	14
Total Offensive Plays	69	75
Total Net Yards	370	388
Avg. Gain Per Play	5.3	5.2
Return Yards	50	31
Fumbles: Number-lost	5-3	3-1
Interceptions: Number	1	1
Number of Punts-Yards	3-41	4-42
Game Time	30:46	29:14

Passing: Walsh, 17-30, 216yds, 1 TD, 1 INT; Heimuli, 0-1.
Rushing: Willis, 5, 83yds, 1 TD; Nowatzke, 3, 25yds; Sen, 2, 44yds; Lewis, 2, 15yds; Heimuli, 1, 14yds; Johnston, 1, 14yds.

Receiving: Willis, 18, 75yds, 1TD; Heimuli, 10, 21yds; Atuaia, 1, 10yds; Sen, 2, 14yds.

Blocking: Boardman, 3-41yds

Notre Dame Passing: Powilus, 12-22, 212yds, 1TD, 1 INT; Krug, 2-6, 25yds.

Notre Dame Rushing: Stafford, 4, 60yds; Mayes, 3, 73yds; Edwards, 2, 45yds; Sade, 2, 30yds; Champion, 1, 16yds; Kinder, 1, 12yds; Mosley, 1, 12yds.

Notre Dame Receiving: Kinder, 21, 82yds; Edwards, 10, 73yds; Becton, 5, 15yds; Mosley, 1, 12yds.

Women's team captures cross country title

By CHRIS GULSTAD
Universe Sports Writer

BYU's 13th-ranked women's cross country team battled unfavorable weather conditions to capture the team title of the BYU Autumn Classic/Reebok cross country meet at East Bay Municipal Golf Course Saturday.

The Cougar women upset 12th-ranked UCLA partially due to the return of senior Tara Kauffman. Kauffman made a dramatic return to the team, finishing the race as the Cougars' front-runner with a time of 17 minutes 56.80 seconds, good for sixth place out of 109 entrants.

Closely following Kauffman was Janeth Caizalitin, who finished eighth in 18:06.50. Caizalitin did not finish as strong as she could have because she did not turn up her speed in the final half-mile, thinking she had another loop to cover, she said.

Other top finishers for the Cougars were Marty Aparicio, who finished ninth with a time of 18:10.00 seconds and Angela Lee, who finished 11th with a time of 18:23.50. Julie Orton, a junior All-American transfer from Ricks, improved her performance with a 17th-place finish at 18:23.50.

Elva Dryer of Western State, a meet favorite, was the winner of the 5000-meter chase in 17:47.30 seconds. Runner-up Karen Hecox of UCLA, the other favored pick, placed second in 17:51.30.

BYU's men's cross country team struggled through the soggy and rainy conditions at East Bay and came away with a fifth-place finish with 145 points.

The Idaho State University Bengals took first place, with an overall score of 65, and the Weber State Wildcats came in second with 70 overall points.

The highest finisher for the Cougars was Brandon Rhoades, who finished 13th in a field of 113 with a time of 25 minutes 22.40. Following Rhoades for the Cougars were Craig Lawson who finished 33rd in 25:58.70 and Dan Alder at 38th in 26:08.50.



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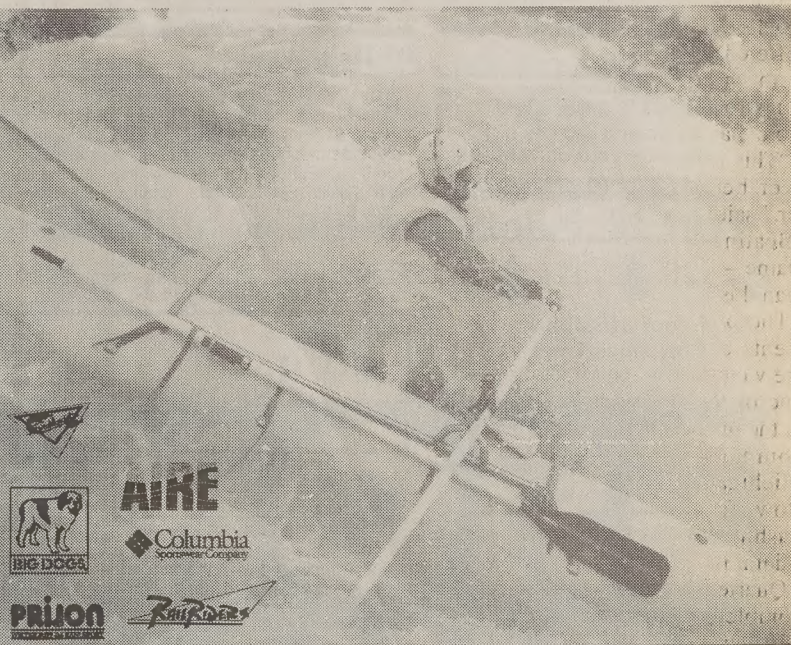
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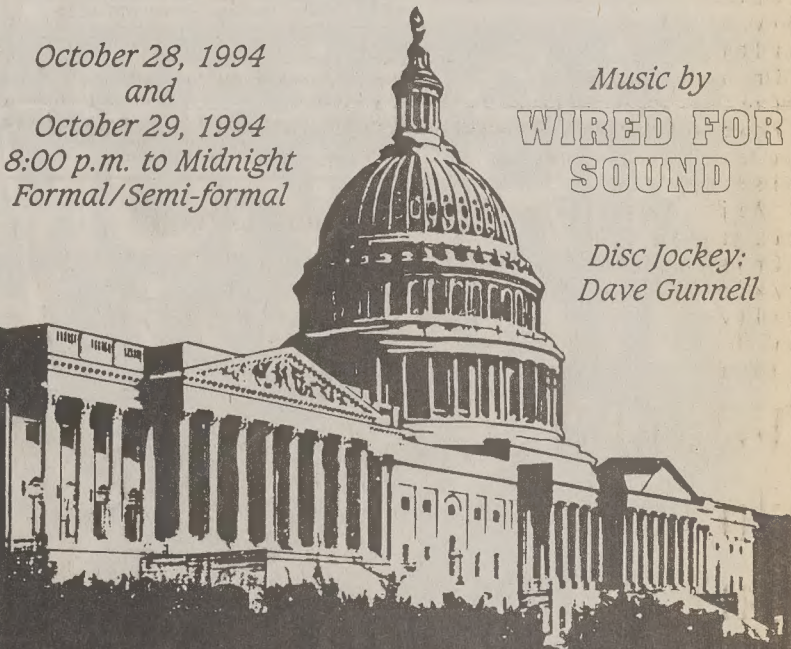
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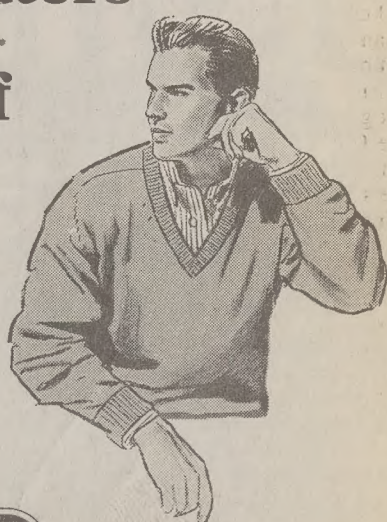
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Research on lichens analyzes pollution

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It has been more than a dozen years since the smelter operation near the eastern end of Montana's Anaconda-Pintler Wilderness closed. Yet the lichens surrounding the region will show clear evidence of smelter pollution, according to a BYU botanist's 1994 study of a federally protected preserve.

Because of contamination, many lichens that should be present at the Montana site no longer exist. The 20 species that live within a 20-mile area between the plant and the preserve are small compared to the 13 species that thrive beyond the polluted zone.

The presence or absence of pollution among lichen species interests Larry St. Clair because he believes studying lichens provides an effective SOS, or warning system, for a specific area's ecosystem.

"Some lichens are particularly sensitive, and when they disappear, it is usually because pollution has upset the lichens' delicate nutritional link," says St. Clair, one of about 30 scientists in North America who research lichens. "This should concern us because lichens are excellent early indicators of potential trouble for other pollution-susceptible plants, such as the trees."

Many kinds of pollutants threaten lichens (where algae and fungi live together as single units with algae providing food and fungi providing water absorption and a place to live). Anything that can be put into the air and washed out, including poisonous metals, can find its way into lichens.

"Lichens make ideal pollution markers because they present the possibility of impending damage in America's national forests and preserves from such poisonous gases as sulfur dioxide and nitrous oxides," St. Clair says. "By analyzing lichens near factories, plants or smelters, we can detect what pollutants are being released."

"We gather tissue samples from lichens that are particularly sensitive, which gives us a baseline level of pollutants. Then, every five to seven years, we return to the site to examine these indicator-species and evaluate changes in the baselines."

St. Clair's work has taken him to Utah, Idaho, Nevada, Colorado, Arizona, Wyoming, Montana and Virginia.

He considers his work with lichens to have been particularly successful in a small wilderness plot of between 8,000 and 10,000 acres in the Blue Ridge mountains in Virginia. His lichen research, when combined with some stream data, convinced forest supervisors in the Shenandoah River Face Wilderness area to recommend rejecting a permit for a coal-fired power plant. St. Clair believes would have impacted the wilderness substantially.

Genetic defect prevents clogged arteries

Associated Press

LOS ANGELES — Cristoforo Pomaroli and Rosa Giovanelli had a son in 1780 in their small town in Italy, never knowing they bequeathed a genetic legacy that offers hope for reversing heart disease two centuries later.

The boy's descendants in Limone inherited a genetic defect that protects them from the scourge of Western living — fatty deposits that clog the arteries.

The 38 lucky carriers have a simple mutation in a protein of so-called good cholesterol that lets them eat red meat, sausage and butter without artery-clogging deposits.

They range in age from the teens to nearly 90. And they have never worried about strokes or heart attacks since longevity runs in the family.

"They are almost all smokers. They eat like hell, the worst diet," said the University of Milan's Dr. Cesare Sirtori, who screened residents of Limone for the miracle mutation.

Ever since Sirtori discovered the mutation, called Apolipoprotein A-I Milano for the university where he is a pharmacology professor, doctors have wondered about harnessing its

power to eliminate coronary artery disease.

"Eventually it is not inconceivable that the gene could be transferred to the liver or other organs of very high-risk people who could then end up manufacturing it on their own," said Dr. Prediman K. Shah, director of the cardiac care unit at Cedars-Sinai Medical Center in Los Angeles.

Shah leads a U.S.-Swedish team examining the more immediate potential to reduce the deadly reclogging that occurs after a blocked vessel has been cleared with balloon angioplasty surgery.

In the October issue of the American Heart Association journal Circulation, Shah reports injections of a genetically engineered version of the protein dramatically reduced the reclogging of rabbits' coronary arteries.

Before and after the surgery, eight rabbits got injections of Apo Milano attached to a fat molecule that targets the proper site.

Eight others got injections of only the fat molecule. Four rabbits got no treatment.

"The striking finding was in the rabbits that received the recombinant version of the Apo Milano, the amount of plaque that built up was 70 percent

less than the (untreated) control group," Shah said.

Sirtori said he will publish similar results in December showing "no plaque at all" in rabbits injected with Apo Milano. Shah said Friday he will test monkeys, pigs and mice before considering human trials, a point that could take several years to reach.

Shah learned about the Limone mutation two years ago while searching for sources of synthetic high-density lipoprotein, HDL, which is cholesterol that might reduce reclogging.

He read that Sirtori stumbled upon a strange form of HDL in 1974 while examining a man with sky-high levels of cholesterol and triglycerides, but no coronary artery disease. Somehow good cholesterol was keeping the bad from wreaking havoc.

Through church records in Limone, Sirtori traced the anomaly to Pomaroli and Giovanelli, then went to the town and screened every resident over the age of 10.

"I believed it was something important. I mailed samples all over Europe to colleagues. Nobody gave a damn about it," Sirtori said from Milan.

Eventually, the Swedish biotechnology firm Pharmacia A.B. began producing the laboratory version.

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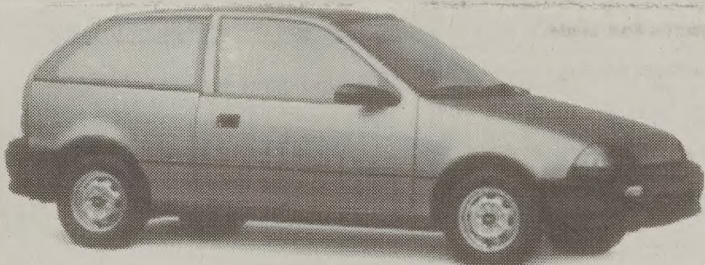
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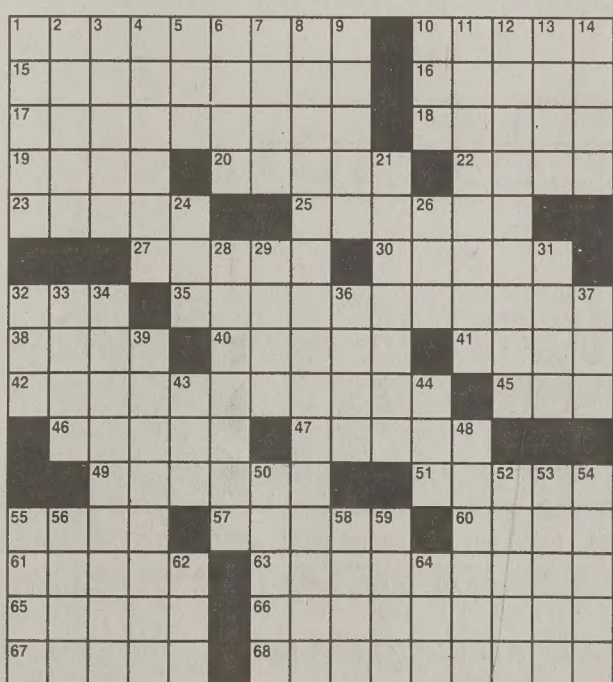
Crossword

Edited by Will Shortz

No. 0903

- ACROSS**
- 38 Part of a Clue accusation
 - 40 Earthy deposits
 - 41 Car job
 - 42 Kingmaker
 - 45 Old veterans' org.
 - 46 Onetime record label
 - 47 Bullion
 - 49 Buddhist teaching
 - 51 Sheet of rock
 - 55 Some MOMA art
 - 57 Sweetly, in music
 - 60 Anne McCaffrey's dragon world
 - 61 Conjointly
 - 63 Bit of trouble

- DOWN**
- 1 Scottish author James et al.
 - 2 Brooks of "Spenser: For Hire"
 - 3 Accept
 - 4 Montmartre money
 - 5 List shortener
 - 6 Kirlian photography phenomenon
 - 7 "Napoleon at Eylau" painter
 - 8 Fugard play, with "A"
 - 9 Favorite of Elizabeth
 - 10 Like
 - 11 Accelerator
 - 12 It bit Marlon Brando
 - 13 Blue vessel
 - 14 Actress Purviance
 - 21 Composed
 - 24 In — signo vices (ancient motto)
 - 26 Belly
 - 28 "My Man Godfrey" star
 - 65 Novelist Wyndham
 - 66 Transmit, as to a satellite
 - 67 Whaler's spear
 - 68 Oiler locale



Puzzle by Raymond Hamel

- 29 Come from —
- 31 Island NE of Corsica
- 32 Torn-collage artist
- 33 Crucifix
- 34 Annihilated
- 36 Actress Sommer
- 37 Poetic adverb
- 39 Wrench user
- 43 Satcom co.
- 44 Politicked
- 48 Stopped
- 50 One of the Roman Fates
- 52 ———Bismol
- 53 Introduction
- 54 ————temp (interval): Fr.
- 55 "The Corn Is Green" Oscar nominee
- 56 On the briny
- 58 Kind of following
- 59 Elbe feeder
- 62 Nationality ending
- 64 Medical grp.

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ERISONS	STREP	
RIATRIC	AROSE	
NOES	EMETIC	
IED	DOES	WORK
TWA	NAP	
STIL	STABBERS	
TACK	NAUSEA	
ASHORE	OSTEND	
RES	LET	
OWTALKS	BEEPS	
SBON	ILIA	ELI
CUR	SMELLARAT	
ARS	TOWELSIZE	
RN	ESS	HEAD

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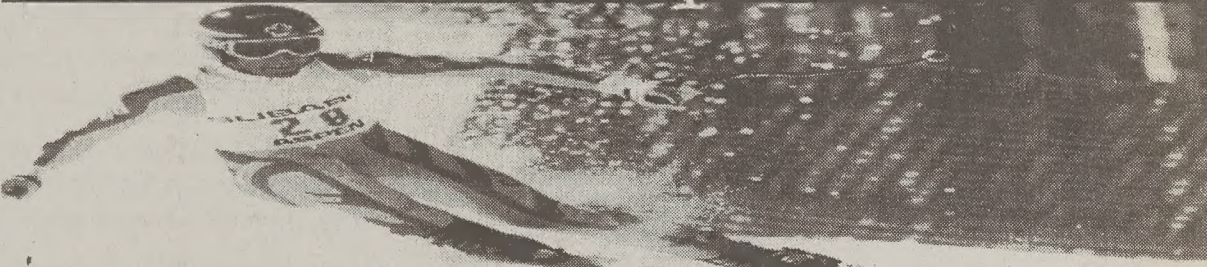
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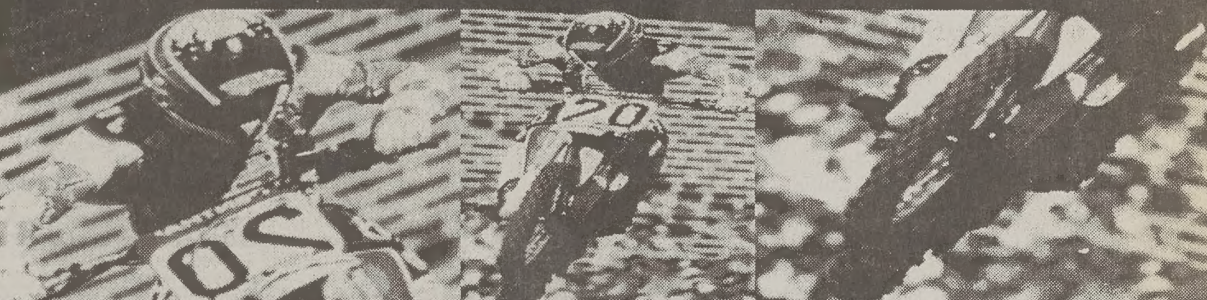
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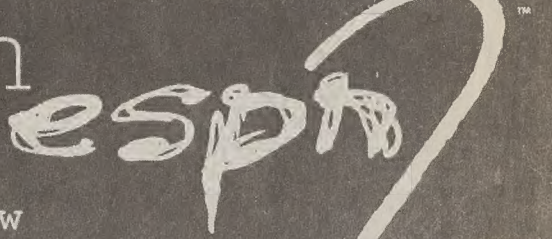


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Violence disrupts Aristide's return

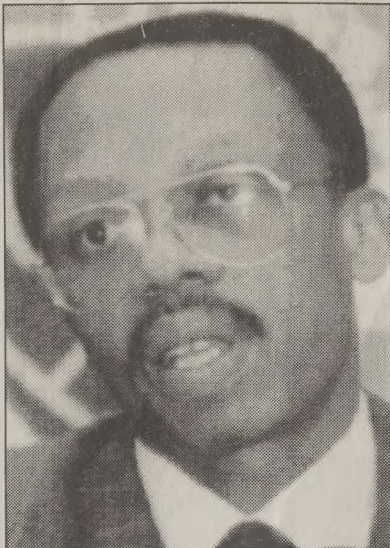
2 people killed in slums of Port-au-Prince

Associated Press

PORT-AU-PRINCE, Haiti — A day after President Jean-Bertrand Aristide came home in triumph, violence Sunday marred his message of reconciliation and illustrated the challenge of putting Haiti's tragic past behind.

Two people were killed in the violence that began when two dozen vigilantes wielding machetes, clubs and rocks went from house to house in a Port-au-Prince slum, looking for members of a paramilitary group known to have killed and brutalized Aristide supporters.

Led by a man with "Lavalas" shaved into his head, the name of Aristide's popular movement, the vigilantes found a member of the Front for the Advancement and Progress of Haiti, Lorreuis Francois, and bloodied his wife's face as she told them to leave



JEAN-BERTRAND ARISTIDE

her husband alone.

A neighbor persuaded them to leave, but less than two hours later, witnesses said, Francois came outside and angrily whacked a machete into the first person he saw, a pull-cart driver named Jean, killing him.

Witnesses said the vigilantes came

back, found Francois in his house and killed him with a single machete blow. They brought a Haitian army helmet and a uniform out into the street and set them ablaze.

Standing in the street, people watched the flames in silence.

The rampage Sunday afternoon came less than 24 hours after Aristide preached peace and reconciliation to the Haitian people in a victorious speech at the National Palace.

On Sunday, a crowd of hundreds waited while Aristide met with Maj. Gen. Jean-Claude Duperval, then yelled and pounded on the interim army chief's car when he left. Duperval said he and Aristide discussed reducing the size of the army.

Aristide's government already was moving to identify human rights violators among Haiti's military so they could disarm and fire them, sources close to the government said Sunday.

"That first process ... is supposed to be happening now," Mike Levy, an American aide to the Aristide government, told The Associated Press on Sunday.

He said special attention would be paid to the anti-gang units, which

arrested and tortured Aristide supporters during the military regime that ended this month with the departure of the men who orchestrated the 1991 coup.

Aristide plans to trim the 7,450-member army to 1,500. Some of those identified for retirement will be assigned to U.S.-funded retraining or re-education programs.

But the large number of Haitian soldiers abandoning their posts in recent days makes the number uncertain.

"There may not even be 1,500 people in the army right now," Levy said.

Army officers accompanied coup leaders Raoul Cedras and Michel Francois into exile, and whole contingents in the Cap-Haitien and Les Cayes areas have disappeared.

Parts of the military, particularly several notorious police divisions, will be eliminated. The rural sheriffs whose feudal rule was restored after Aristide's ouster were outlawed.

Still, fear of pro-army militia remains high in this country, long cursed by tyranny and violence. Many were surprised that only some 10,000 people showed up for Aristide's homecoming speech on Saturday.

23,500 make annual pilgrimage to Georgia where woman speaks of seeing Virgin Mary

Associated Press

CONYERS, Ga. — They came from across the country and around the world, armed with video cameras and rosaries, faith and hope.

They camped for days and stood in the rain for hours, listening to scripture readings, singing "Ave Maria," waving white paper and white handkerchiefs — and waiting for a message from the Virgin Mary.

Finally, Nancy Fowler emerged from her farmhouse in this Atlanta suburb and delivered the word Thursday to more than 23,500 mud-covered pilgrims.

"Our lady was radiant," Mrs. Fowler said. "She wore a white veil and dress and she was beautiful."

Mrs. Fowler says she sees the virgin on the 13th of each month on the ceiling of a room in her farmhouse. Tens of thousands of people have been drawn here since October 1990, when she began speaking of the apparition that only she has seen.

Marcella Attolini, of Chihuahua, Mexico, wiped tears from her face as she videotaped Mrs. Fowler. "The mother of God was here to give the message to love each other," she said.

Thursday's message, the first since

May, was similar to those Mrs. Fowler has issued previously: Follow God or the earth will be plagued with war, famine, flood and other suffering.

An assistant read the message in English and Spanish over loudspeakers before Mrs. Fowler addressed the crowd.

"I think it's so important you carry in your hearts and live the message of mercy," Mrs. Fowler said.

She also said that Mary asked people to pray for county officials trying to limit the crowds to 500 by restricting parking and requiring toilets, water and medical care for everyone.

Meanwhile, in Hollywood, Fla., hundreds of pilgrims flocked to the home of Rosa Lopez, who also says the Virgin Mary speaks to her on the 13th of each month.

When the sun broke through the clouds during a 90-minute recitation of the rosary, many onlookers dropped to their knees and stared at the blazing sun. Some reported seeing crosses in the sky, others a silhouette of Mary.

"I saw the Lord," said a sobbing Susan Butler, 26, of Boynton Beach. "What one person sees, another may not. If you believe, you'll see it."

In Georgia, Mrs. Fowler said the messages will come only once a year from now on, in October. That's probably good news to townspeople who are growing tired of the spectacle and sporting bumper stickers that say: "Eat, Drink and See Mary."

But for the faithful, the visions never grow stale.

Every time you come out here it gives you strength," said Tisha Fischer of Gainesville.

Monica Banuelos came with eight members of her family in one of 10 buses from Juarez, Mexico. Wearing rosary beads on a colorful crocheted chain, Ms. Banuelos said the reason for the long pilgrimage is simple.

"Why?" she said. "Because we love the virgin."

5-year-old Chicago boy killed when he wouldn't steal candy

Associated Press

CHICAGO — Derrick Thomas battled frantically to save his 5-year-old brother, pushed out a 14th-floor window by two older boys because he wouldn't steal candy for them.

As 5-year-old Eric Morris dangled from the ledge, Derrick, 8, grabbed his hand and tried to pull him back inside.

He almost made it.

But then one of the older boys bit Derrick's arm and he lost his grip — and Eric plunged to his death.

Eric died of massive internal injuries after falling Thursday night from the vacant apartment in a South Side housing project.

Two boys, aged 10 and 11, were charged as juveniles Friday with first-degree murder.

The boys, barely tall enough to peer over the judge's desk, face a maximum sentence of five years probation if convicted.

As for Derrick, "He's horrified," said police Cmdr. Charles Smith.

The victim's great-grandmother, Eberlena Bush, said the brothers were protective of one another.

The boys wanted to throw Eric out the window because he wouldn't steal candy for them and "was causing

trouble," Detective James Riley said.

Police said both suspects have criminal records. The 10-year-old was supposed to be confined to his home after being sentenced for unlawful use of a weapon.

A judge ordered the boys held at the county juvenile home until a hearing Monday.

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